



Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
October 5, 2010

IDEM ID Number:
2010-245-4-EMP-A

Closing Date:
October 26, 2010

Corps of Engineers ID Number:
LRL-2010-513-sam

PUBLIC NOTICE

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

- | | | | |
|--------------------------------|--|------------------|--|
| 1. Applicant: | Mr. Chip Hill
Town of Pierceton
P.O. Box 496
Pierceton, IN 46562 | 2. Agent: | Mr. Rick Ward
U.S. Fish and Wildlife Service
P.O. Box 77
North Judson, IN 46366 |
| 3. Project location: | NE 1/4 Section 28, Township 32 North, Range 7 East, Pierceton USGS Quadrangle
Project is located south of US 30, north of Arnoldt Drive, and west of SR 13, in Pierceton, Kosciusko County | | |
| 4. Affected waterbody: | scrub-shrub wetland | | |
| 5. Project Description: | The applicant proposes to construct a 1.29 acre berm (1,275' long by 44' wide at its base) along the northern and eastern boundary of a 10.7 acre scrub-shrub wetland. An additional 0.10 acre of wetland will be impacted to construct a ditch north of the northern dike area (650' long by 6'-9.6" from top-of-bank to top-of-bank). The berm is required to keep water off of the US 30 right-of-way, and the drainage ditch will allow water that collects in that area to reach the county tile riser at the northeastern edge of the site. An additional 0.03 acre of wetland will be temporarily impacted (1,275' long by 1' wide) for trenching and tile exploration to the south and west of the proposed berm. Permanent wetland impacts will be 1.39 acres. The goal of the project is to restore additional hydrology to the wetland, which is proposed to have a "full pool area" of 8.2 acres with an average depth of 24" (to range between 0"-36") which will drown out the existing exotic reed canary grass component of the wetland. As mitigation for permanent wetland impacts, the applicant proposes to construct 1.40 acres of wetland mitigation to the west of the existing wetland. Additional figures are available on the online posting of this public notice at: http://www.in.gov/idem/6396.htm | | |

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Ms. Liz Pelloso, Project Manager, at 317-233-2482. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251
FAX: 317/232-8406



DUCKS UNLIMITED

IDEM
OFFICE OF
WATER QUALITY

2010 SEP 10 A 10:18

PIERCETON RESTORATION

KOSCIUSKO COUNTY, INDIANA

IN COOPERATION WITH
NATURAL RESOURCES CONSERVATION SERVICE
(NRCS)

SPECIFICATIONS

- 101 GENERAL CONDITIONS
- 102 SUPPLEMENTAL CONDITIONS
- 201 MOBILIZATION
- 202 SITE PREPARATION
- 203 EXCAVATION
- 204 EMBANKMENT CONSTRUCTION
- 301 WATER CONTROL STRUCTURES
- 302 STRUCTURE AND CULVERT APPURTENANCES
- 303 CULVERT AND PIPE INSTALLATION
- 304 CAST-IN-PLACE REINFORCED CONCRETE
- 305 RIPRAP, REVETMENT AND AGGREGATE PLACEMENT
- 311 REMOVAL OF EXISTING CULVERTS AND STRUCTURES
- 312 TILE DRAIN LOCATION AND REMOVAL
- 401 SOIL EROSION AND POLLUTION CONTROL
- 402 SEEDING & MULCHING



Rec'd
9-10-10

PROJECT LOCATION

NOTICE:
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1-800-382-5544

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- 2. SITE PLAN
- 3. DETAIL SHEET 1
- 4. DETAIL SHEET 2
- 5. DETAIL SHEET 3

Global Leader in Wetlands & Wildlife Conservation
GREAT LAKES/ATLANTIC REGIONAL OFFICE
ANN ARBOR, MICHIGAN
(734) 623-2000



COVER SHEET
PIERCETON RESTORATION

REVISIONS:

6/23/08 W.C.S. DHE, SPILLWAYS

CAD FILE:
COVER SHEET

DESIGNED BY: DM

DRAWN BY: DA

SURVEYED BY: -

BOOK NO. -

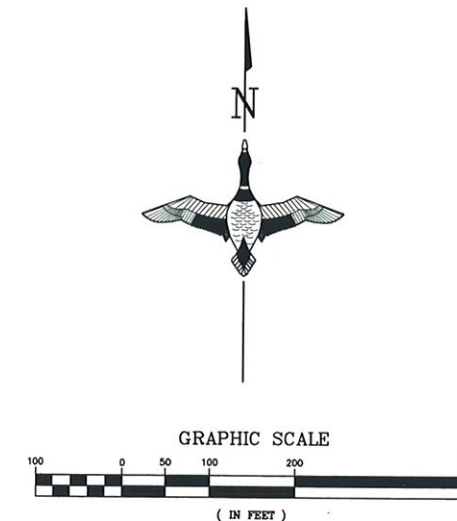
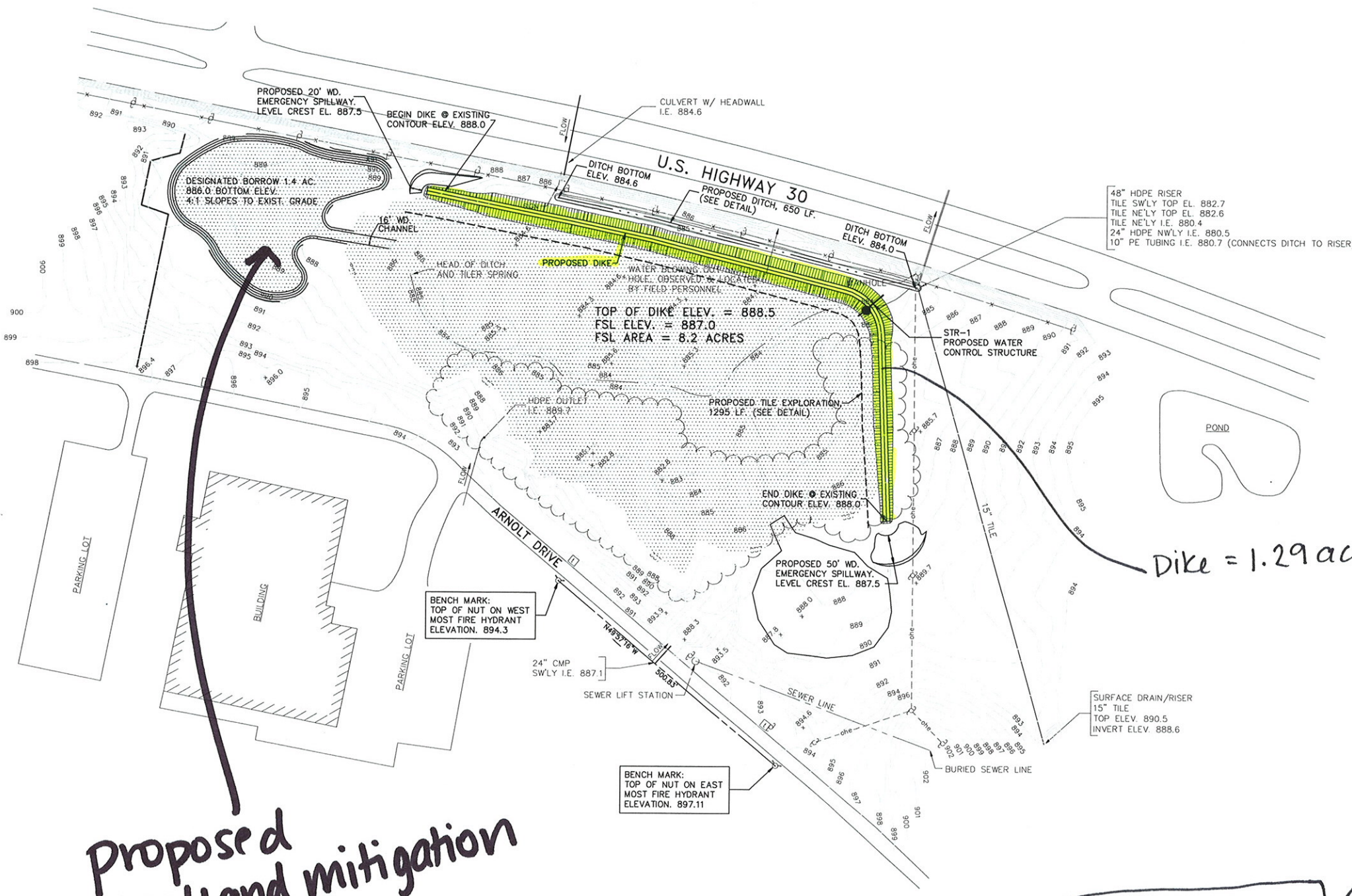
DATE:

6/17/08

PROJECT NO.:

US-IN-73-1

GLARO-IN1-15-1



LEGEND

- EXISTING TREE LINE
- EXISTING DITCH C
- EXISTING FENCE LINE
- EXISTING WATER CONTROL STRUCTURE/MANHOLE
- EXISTING UTILITY POLE
- HYDRANT
- EXISTING TELEPHONE RISER
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED DIKE
- PROPOSED DITCH C
- PROPOSED WATER CONTROL STRUCTURE
- PROPOSED CONTOUR (650)
- FULL SERVICE LEVEL (FSL)

EARTHWORK QUANTITIES

DIKE	5606 CY. FILL
DIKE SITE PREP.	814 CY. CUT
DITCH	140 CY. CUT
SPILLWAYS	290 CY. CUT

NOTE:
TOPOGRAPHIC SURVEY DATA WAS PROVIDED BY THE
NATURAL RESOURCES CONSERVATION SERVICE (NRCS)

SITE PLAN
PIERCETON RESTORATION

REVISIONS:

3-15-10 ADD BORROW AREA

6/23/08 W.C.S., DHE, SPILLWAYS

CAD FILE:

SITE PLAN

DESIGNED BY: DM

DRAWN BY: DA

SURVEYED BY: -

BOOK NO. -

DATE:

6/17/08

PROJECT NO.:

US-IN-73-1

GLARO-IN1-15-2

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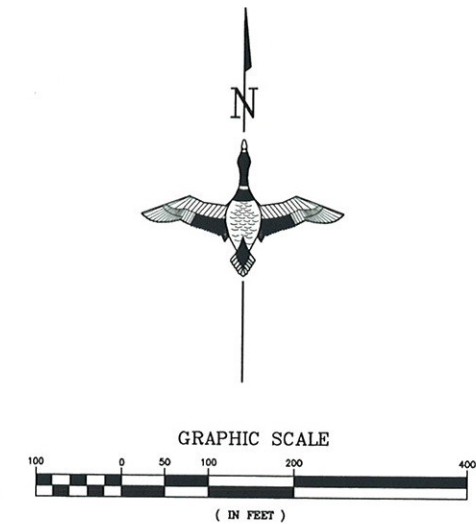
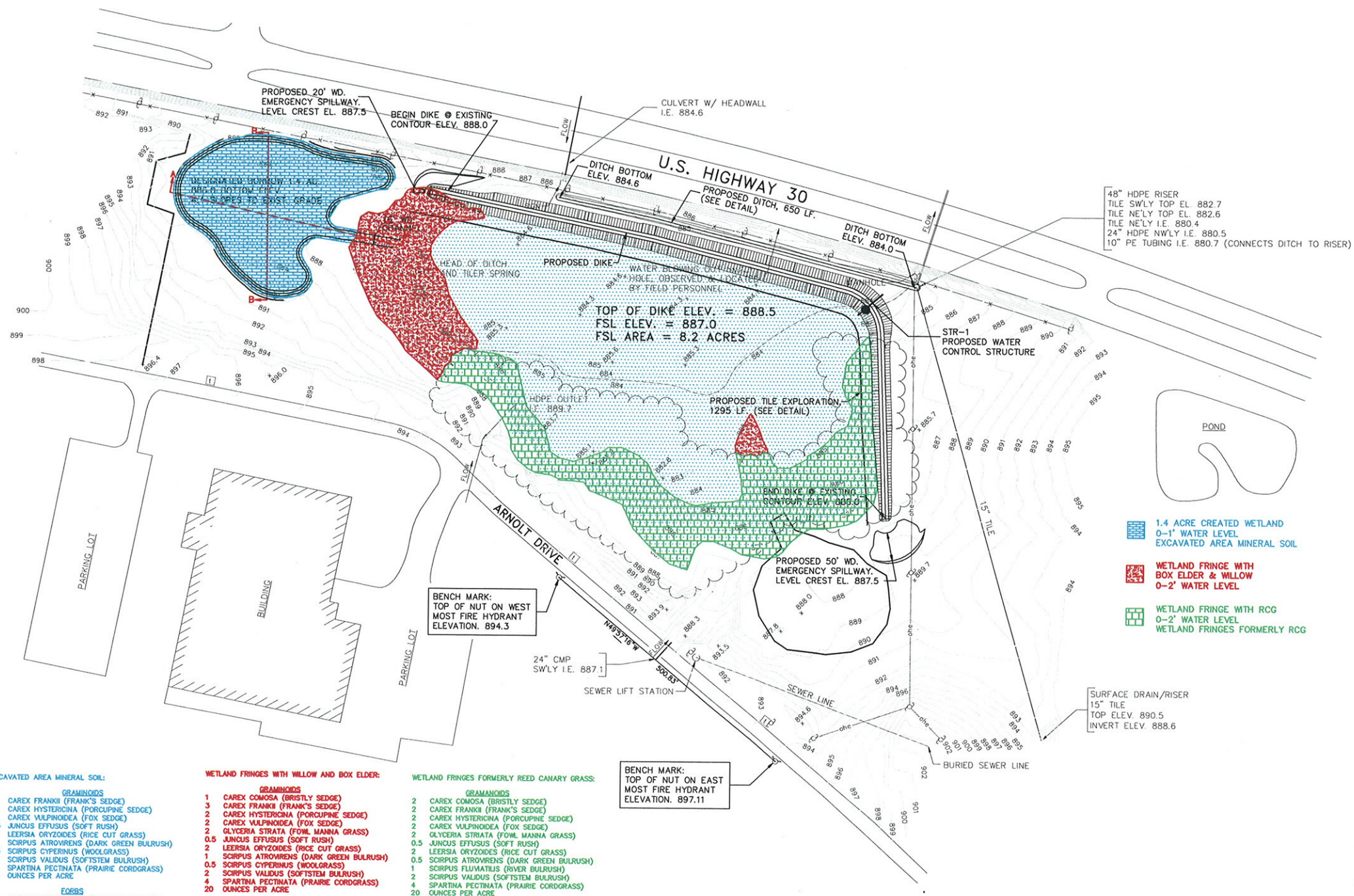
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9-10-10



LEGEND

- EXISTING TREE LINE
- EXISTING DITCH
- EXISTING FENCE LINE
- EXISTING WATER CONTROL STRUCTURE/MANHOLE
- EXISTING UTILITY POLE
- HYDRANT
- EXISTING TELEPHONE RISER
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED DIKE
- PROPOSED DITCH
- PROPOSED WATER CONTROL STRUCTURE
- PROPOSED CONTOUR
- FULL SERVICE LEVEL (FSL)

EARTHWORK QUANTITIES

DIKE	5606 CY. FILL
DIKE SITE PREP.	814 CY. CUT
DITCH	140 CY. CUT
SPILLWAYS	290 CY. CUT

NOTE:
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EXCAVATED AREA MINERAL SOIL:

- CAREX FRANKII (FRANK'S SEDGE)
- CAREX HYSTERICINA (PORCUPINE SEDGE)
- CAREX VULPINOIDEA (FOX SEDGE)
- JUNCUS EFFUSUS (SOFT RUSH)
- LEERSIA ORYZOIDES (RICE CUT GRASS)
- SCORPUS ATROVIRENS (DARK GREEN BULRUSH)
- SCORPUS CYPERINUS (WOOLGRASS)
- SCORPUS VALIDUS (SOFTSTEM BULRUSH)
- SPARTINA PECTINATA (PRAIRIE CORDGRASS)
- OUNCES PER ACRE

WETLAND FRINGES WITH WILLOW AND BOX ELDER:

- CAREX COMOSA (BRISTLY SEDGE)
- CAREX FRANKII (FRANK'S SEDGE)
- CAREX HYSTERICINA (PORCUPINE SEDGE)
- CAREX VULPINOIDEA (FOX SEDGE)
- GLYCERIA STRATA (FOWL MANNA GRASS)
- JUNCUS EFFUSUS (SOFT RUSH)
- LEERSIA ORYZOIDES (RICE CUT GRASS)
- SCORPUS ATROVIRENS (DARK GREEN BULRUSH)
- SCORPUS CYPERINUS (WOOLGRASS)
- SCORPUS VALIDUS (SOFTSTEM BULRUSH)
- SPARTINA PECTINATA (PRAIRIE CORDGRASS)
- OUNCES PER ACRE

WETLAND FRINGES FORMERLY REED CANARY GRASS:

- CAREX COMOSA (BRISTLY SEDGE)
- CAREX FRANKII (FRANK'S SEDGE)
- CAREX HYSTERICINA (PORCUPINE SEDGE)
- CAREX VULPINOIDEA (FOX SEDGE)
- GLYCERIA STRATA (FOWL MANNA GRASS)
- JUNCUS EFFUSUS (SOFT RUSH)
- LEERSIA ORYZOIDES (RICE CUT GRASS)
- SCORPUS ATROVIRENS (DARK GREEN BULRUSH)
- SCORPUS CYPERINUS (WOOLGRASS)
- SCORPUS VALIDUS (SOFTSTEM BULRUSH)
- SPARTINA PECTINATA (PRAIRIE CORDGRASS)
- OUNCES PER ACRE

FORBS

- ALISMA SUBCORDATUM (WATER PLANTAIN)
- ASCLEPIAS INCARNATA (MARSH MILKWEED)
- ASTER PUNICEUS (SWAMP ASTER)
- EUPATORIUM MACULATUM (SPOTTED JOE-PYE WEED)
- HELENIUM AUTUMNALE (AUTUMN SNEEZEWEED)
- HIBISCUS PALUSTRIS (SWAMP ROSE MALLOW)
- LYCOPUS AMERICANS (WATER HOREHOUND)
- MIMULUS RINGENS (MONKEYFLOWER)
- SAGITTARIA LATIFOLIA (COMMON ARROWHEAD)
- VERBENA HASTATA (BLUE VERVAIN)
- OUNCES PER ACRE

FORBS

- ALISMA SUBCORDATUM (WATER PLANTAIN)
- ASCLEPIAS INCARNATA (MARSH MILKWEED)
- CEPHALANTHUS OCCIDENTALIS (BUTTONBUSH)
- HELENIUM AUTUMNALE (AUTUMN SNEEZEWEED)
- LOBELIA CARDINALIS (CARDINAL FLOWER)
- LYCOPUS AMERICANA (WATER HOREHOUND)
- MIMULUS RINGENS (MONKEYFLOWER)
- SAGITTARIA LATIFOLIA (COMMON ARROWHEAD)
- VERBENA HASTATA (BLUE VERVAIN)
- OUNCES PER ACRE

FORBS

- ALISMA SUBCORDATUM (WATER PLANTAIN)
- ASCLEPIAS INCARNATA (MARSH MILKWEED)
- HELENIUM AUTUMNALE (AUTUMN SNEEZEWEED)
- HIBISCUS PALUSTRIS (SWAMP ROSE MALLOW)
- LYCOPUS AMERICANA (WATER HOREHOUND)
- MIMULUS RINGENS (MONKEYFLOWER)
- SAGITTARIA LATIFOLIA (COMMON ARROWHEAD)
- VERBENA HASTATA (BLUE VERVAIN)
- OUNCES PER ACRE

PLUGS FOR THIS AREA

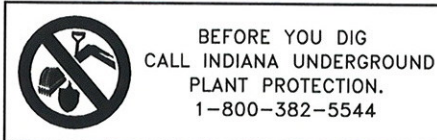
- CALAMAGROSTIS CANADENSIS (BLUE-JOINT GRASS)
- CAREX STRICTA (TUSSOCK SEDGE)
- PLUGS PER ACRE

PLUGS FOR THIS AREA

- CALAMAGROSTIS CANADENSIS (BLUE-JOINT GRASS)
- CAREX STRICTA (TUSSOCK SEDGE)
- PLUGS PER ACRE

PLUGS FOR THIS AREA

- CALAMAGROSTIS CANADENSIS (BLUE-JOINT GRASS)
- CAREX STRICTA (TUSSOCK SEDGE)
- PLUGS PER ACRE



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SITE PLAN
PIERCETON RESTORATION

REVISIONS:

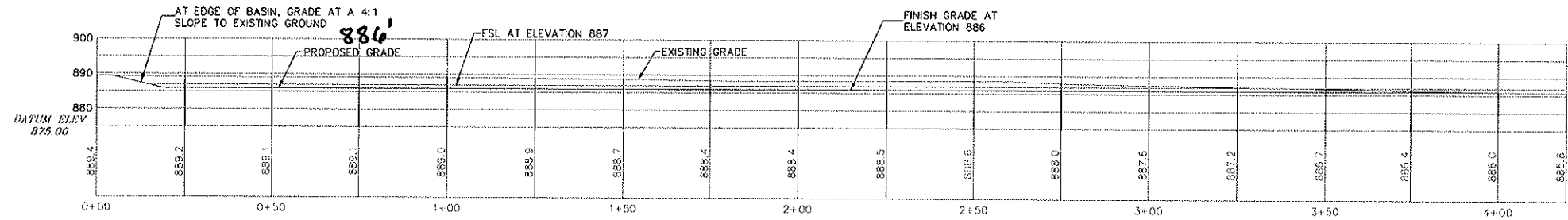
9-7-10 ADDED SEEDING LAYOUT
1-15-10 ADD BORROW AREA
6/23/08 W.C.S. DKE, SPILLWAYS

CAD FILE:

DESIGNED BY: DM
DRAWN BY: DA
SURVEYED BY: --
BOOK NO: --

DATE: 6/17/08
PROJECT NO.: US-IN-73-1

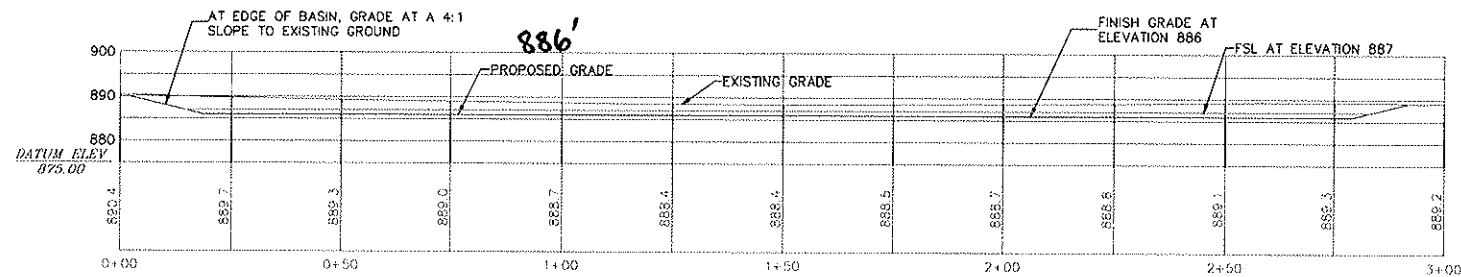
GLARO-IN1-15-2



CROSS SECTION A-A

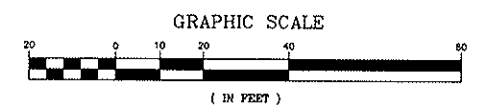
SCALE: HORIZONTAL = 1" = 10"
VERTICAL = 1" = 10"

existing grade: 888' - 890'
proposed grade: 886'



CROSS SECTION B-B

SCALE: HORIZONTAL = 1" = 10"
VERTICAL = 1" = 10"



EARTHWORK QUANTITIES

DIKE	5606 CY. FILL
DIKE SITE PREP.	814 CY. CUT
DITCH	140 CY. CUT
SPILLWAYS	290 CY. CUT

NOTE:
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SITE PLAN
PIERCETON RESTORATION

REVISIONS:

3-15-10 ASD BOUNDARY AREA

6/23/08 NRCS, DIKE, SPILLWAYS

CAD FILE:

SITE PLAN

DESIGNED BY: DW

DRAWN BY: DA

SURVEYED BY: --

BOOK NO. --

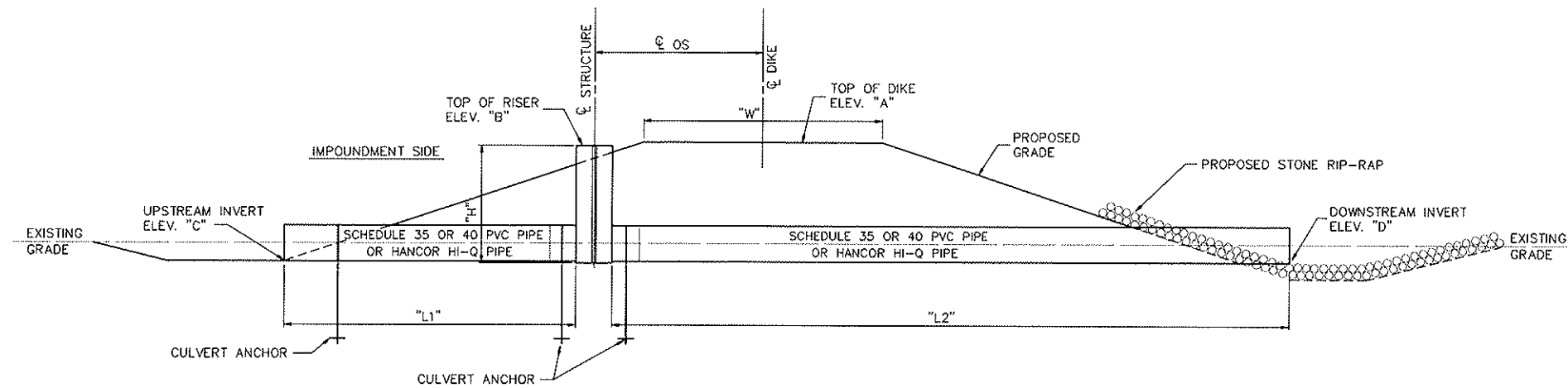
DATE:

6/17/08

PROJECT NO.:

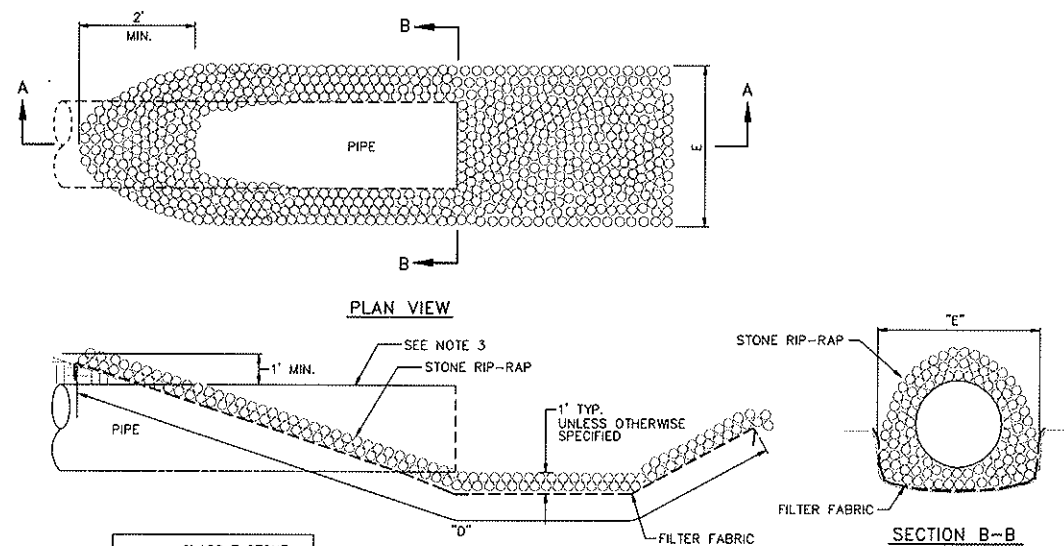
US-IN-73-1

GLARO-IN1-15-2



PROFILE OF AGRI-DRAIN® WATER CONTROL STRUCTURE
NOT TO SCALE

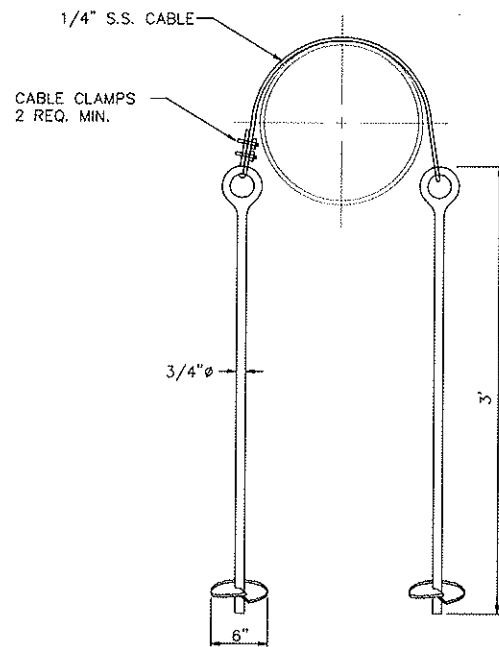
STRUCTURE	PIPE SIZE	RISER SIZE	TOP OF DIKE EL. "A"	TOP OF RISER EL. "B"	FULL SERVICE LEVEL	INLET I.E. EL. "C"	OUTLET I.E. EL. "D"	TOP WIDTH "W"	INLET LENGTH "L1"	OUTLET LENGTH "L2"	℄ - ℄ OFFSET	RISER HEIGHT "H"
STR-1	18"	24" x 28"	888.5	889.0	887.0	883.0	883.0	12	12	28	7	6



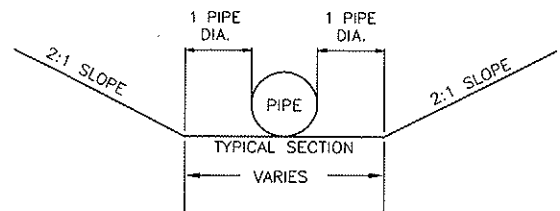
CLASS I STONE			
PIPE DIA.	D	E	Sq.Yds.
12"	17'	3'	5.5
15"	18'	3.75'	7.2
16"	19'	4.5'	8.3
21"	20'	5.25'	11.0
24"	21'	6'	13.2
27"	22'	6.75'	15.4
30"	27'	10'	28.7
36"	29'	10'	30.3
42"	31'	10'	31.8
48"	33'	10'	33.2
54"	35'	10'	34.5
60"	37'	10'	35.7

- NOTES:
1. IF THE RIPRAP CLASS DESIGNATION IS NOT SPECIFIED ON THE CONSTRUCTION PLANS, CLASS 1 ROCK RIPRAP SHALL BE UTILIZED. THE ROCK SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 2. UNLESS OTHERWISE SPECIFIED, FILTER FABRIC SHALL BE UTILIZED IN THE INSTALLATION OF RIP RAP.
 3. DOWNSTREAM PIPE OUTLET SHALL CONFORM TO SLOPE FOR PIPE DIAMETERS 30" AND LARGER

OUTLET AND STONE RIP-RAP DETAIL
NOT TO SCALE

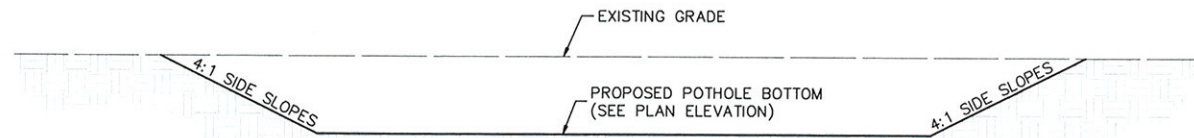


CULVERT ANCHOR
NO SCALE

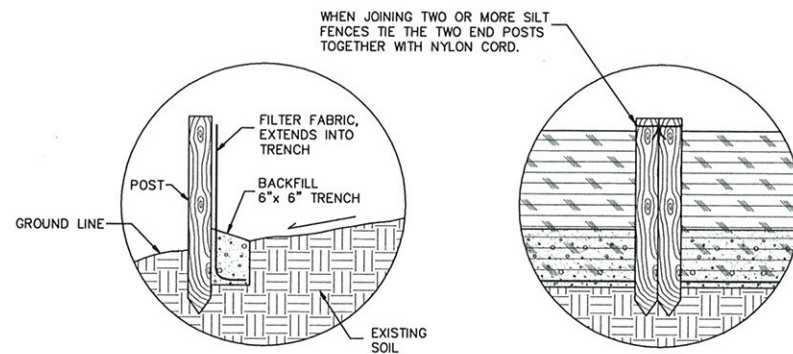


PIPE INSTALLATION
& REMOVAL DETAIL
NOT TO SCALE

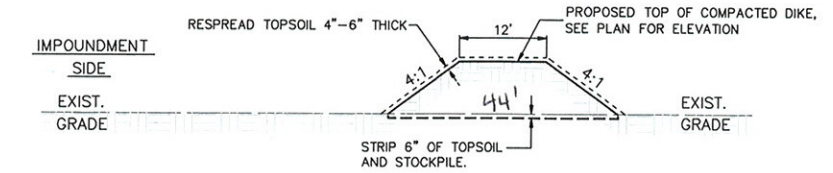
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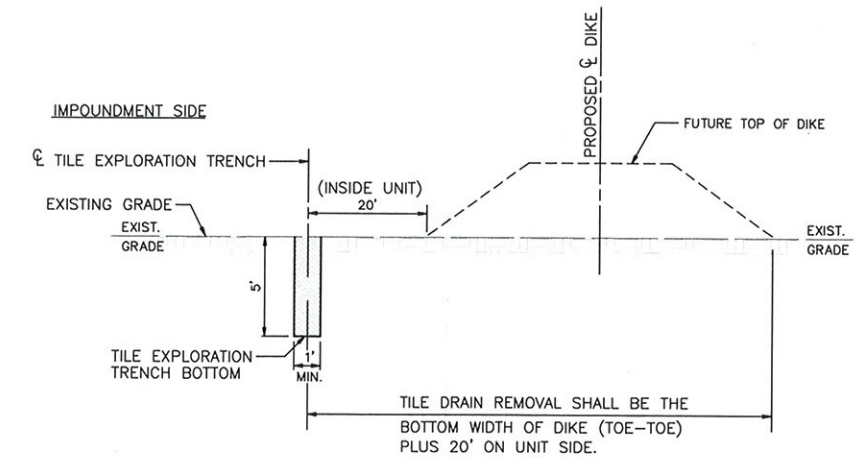
TYPICAL POTHOLE SECTION
NO SCALE



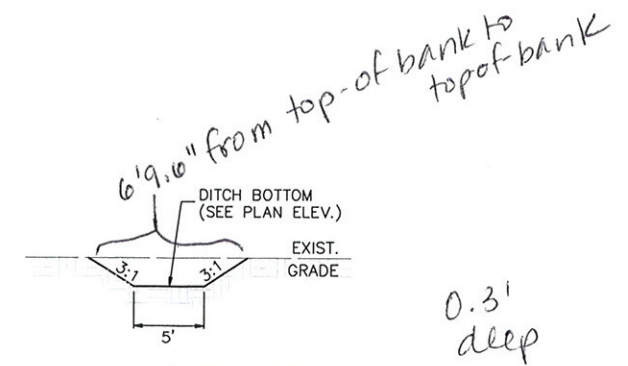
GEOTEXTILE SILT FENCE DETAIL
NO SCALE



TYPICAL SECTION OF DIKE
NO SCALE



TILE DRAIN EXPLORATION DETAIL
NO SCALE



DITCH DETAIL
NO SCALE

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